

FFFFFFF	000000000	RRRRRRRRRRR	RRRRRRRRRRR	TTTTTTTTTTTTT	LLL
FFFFF	000000000	RRRRRRRRRRR	RRRRRRRRRRR	TTTTTTTTTTTTT	LLL
FFFFF	000000000	RRRRRRRRRRR	RRRRRRRRRRR	TTTTTTTTTTTTT	LLL
FFF	000	000	RRR	RRR	TTT
FFF	000	000	RRR	RRR	TTT
FFF	000	000	RRR	RRR	TTT
FFF	000	000	RRR	RRR	TTT
FFF	000	000	RRR	RRR	TTT
FFF	000	000	RRR	RRR	TTT
FFF	000	000	RRR	RRR	TTT
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FFF	000	000	RRR	RRR	TTT
FFF	000	000	RRR	RRR	TTT
FFF	000	000	RRR	RRR	TTT
FFF	000000000	RRR	RRR	RRR	LLLLLLLLLLLL
FFF	000000000	RRR	RRR	RRR	LLLLLLLLLLLL
FFF	000000000	RRR	RRR	RRR	LLLLLLLLLLLL

FILEID**FORWRITSU

H 11

FFFFFFFFF	000000	RRRRRRRR	WW	WW	RRRRRRRR	IIIIII	TTTTTTTTTT	SSSSSSSS	UU	UU	
FFFFFFFFF	000000	RRRRRRRR	WW	WW	RRRRRRRR	IIIIII	TTTTTTTTTT	SSSSSSSS	UU	UU	
FF	00	00	RR	RR	WW	WW	RR	RR	SS	SS	
FF	00	00	RR	RR	WW	WW	RR	RR	SS	SS	
FF	00	00	RR	RR	WW	WW	RR	RR	SS	SS	
FF	00	00	RR	RR	WW	WW	RR	RR	SS	SS	
FFFFFFFFF	00	00	RRRRRRRR	WW	WW	RRRRRRRR	IIII	TT	SSSSSS	UU	UU
FFFFFFFFF	00	00	RRRRRRRR	WW	WW	RRRRRRRR	IIII	TT	SSSSSS	UU	UU
FF	00	00	RR	RR	WW	WW	RR	RR	SS	UU	UU
FF	00	00	RR	RR	WW	WW	RR	RR	SS	UU	UU
FF	00	00	RR	RR	WWWW	WWWW	RR	RR	SS	UU	UU
FF	00	00	RR	RR	WWWW	WWWW	RR	RR	SS	UU	UU
FF	00	00	RR	RR	WW	WW	RR	RR	SS	UU	UU
FF	000000	RR	RR	WW	WW	RR	RR	IIIIII	SSSSSSSS	UUUUUUUUUU	UUUUUUUUUU
FF	000000	RR	RR	WW	WW	RR	RR	TT	SSSSSSSS	UUUUUUUUUU	UUUUUUUUUU

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
LLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLL	IIIIII	SSSSSSSS

(2)	56	HISTORY ; Detailed Current Edit History
(3)	85	DECLARATIONS
(4)	129	FOR\$WRITE_SU - WRITE Sequential UNFORMATTED

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0000 1 .TITLE FOR\$WRITE_SU - entry point for FORTRAN WRITE SEQUENTIAL UNFORMATTED
0000 2 .IDENT /1-011/ File: FORWRITSU.MAR Edit: JAW1011
0000 3 *****
0000 4 *
0000 5 *
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0000 23 *
0000 24 *
0000 25 *****
0000 26
0000 27
0000 28 ++
0000 29 FACILITY: FORTRAN Support Library - user callable
0000 30
0000 31 ABSTRACT:
0000 32
0000 33 This module contains the entry point for the FORTRAN
0000 34 WRITE SEQUENTIAL UNFORMATTED I/O statement. It is simply
0000 35 a call to FOR\$IO_BEG with bits in R0 which describe the
0000 36 parameter list. FOR\$IO_BEG interprets the parameters.
0000 37
0000 38 MAINTENANCE NOTE:
0000 39 The transfer vector (RTLVECTOR+ALLLBL) must have the following:
0000 40
0000 41 .TRANSFER FOR\$WRITE_SU
0000 42 .MASK FOR\$IO_BEG
0000 43 BRW FOR\$WRITE_SU+2
0000 44
0000 45 This puts the correct mask in entry vector, that is FOR\$IO_BEG entry mask.
0000 46 Furthermore this module must only use R0 and R1
0000 47 since any other register might not be in the entry mask for FOR\$IO_BEG.
0000 48
0000 49 ENVIRONMENT: User access mode; mixture of AST level or not
0000 50
0000 51 AUTHOR: Richard B. Grove, CREATION DATE: 28-May-78
0000 52
0000 53 MODIFIED BY:
0000 54 T. Hastings, 29-July-78

0000 56 .SBTTL HISTORY : Detailed Current Edit History
0000 57
0000 58
0000 59 : Edit History for Version 1
0000 60
0000 61 0-10 - Add comment about vectors. TNH 23-June-78
0000 62 0-12 - Pass arg in R0, not ROR, add comments. TNH 29-July-78
0000 63 1-001 - Update version number and copyright notice. JBS 16-NOV-78
0000 64 1-002 - Change statement type symbols to be LUB\$K... JBS 07-DEC-78
0000 65 1-003 - Change statement type symbols to be ISB\$K... JBS 11-DEC-78
0000 66 1-004 - Add A.. to the PSETT directive. JBS 22-DEC-78
0000 67 1-005 - Add FOR\$READ_KF, FOR\$READ_KO, FOR\$REWRITE_SF, FOR\$REWRITE_SO,
0000 68 FOR\$READ_IF, FOR\$READ_IO, FOR\$WRITE_IF, FOR\$WRITE_IO,
0000 69 FOR\$READ_KU, FOR\$REWRITE_SU,
0000 70 SBL 2-May-1979
0000 71 1-006 - Remove all entry points that need object time formatting,
0000 72 putting them in FOR\$ENTRY_OBJ so that we can arrange to
0000 73 load the format compiler only when it is needed.
0000 74 JBS 26-JUN-1979
0000 75 1-007 - Remove entry point FOR\$ENCODE_MF; we will code a new module
0000 76 for it and FOR\$IO_BEG, to see how much I/O initiation time
0000 77 improves. JBS 02-JUL-1979
0000 78 1-008 - Do likewise for FOR\$READ_DU and FOR\$WRITE_DU. JBS 03-JUL-1979
0000 79 1-009 - Remove all entry points except FOR\$WRITE_SU; each of the
0000 80 others gets its own module so we can selectively load
0000 81 the necessary UDF and REC modules. JBS 09-JUL-1979
0000 82 1-010 - New parameter format for FOR\$IO_BEG. SBL 5-Dec-1979
0000 83 ; 1-011 - Change BRW FOR\$IO_BEG+2 to JMP G^FOR\$IO_BEG+2. JAW 21-Feb-1981

0000 85 .SBTTL DECLARATIONS
0000 86
0000 87
0000 88 : INCLUDE FILES:
0000 89
0000 90
0000 91 \$FORPAR : Define inter-module FORTRAN symbols
0000 92 \$ISBDEF : Define statement type symbols
0000 93
0000 94 : EXTERNAL SYMBOLS:
0000 95
0000 96
0000 97
0000 98 .DSABL GBL : Declare all external symbols
0000 99 .EXTRN FOR\$SIO_BEG : common I/O statement processing
0000 100 :+
0000 101 : The following references are to make sure the necessary UDF and REC
0000 102 : modules are loaded. These are the routines which are called through
0000 103 : the dispatch tables in FOR\$DISPAT.
0000 104 :-
0000 105 .EXTRN FOR\$UDF_WU0, FOR\$UDF_WU1, FOR\$UDF_WU9
0000 106 .EXTRN FOR\$REC_WSU0, FOR\$REC_WSU1, FOR\$REC_WSU9
0000 107
0000 108 : MACROS:
0000 109
0000 110 : NONE
0000 111
0000 112 : PSECT DECLARATIONS:
0000 113
0000 114
0000 115 .PSECT _FORSCODE PIC,USR,CON,REL,LCL,SHR,EXE,RD,NOWRT,LONG
0000 116
0000 117
0000 118 : EQUATED SYMBOLS:
0000 119
0000 120 :
0000 121
0000 122
0000 123 : OWN STORAGE:
0000 124
0000 125 : NONE
0000 126
0000 127 :

0000 129 .SBTTL FOR\$WRITE_SU - WRITE Sequential UNFORMATTED
0000 130
0000 131 ++
0000 132 FUNCTIONAL DESCRIPTION:
0000 133 Initialize the FORTRAN I/O system to perform
0000 134 a WRITE sequential unformatted I/O statement.
0000 135
0000 136
0000 137 CALLING SEQUENCE:
0000 138
0000 139 CALL FOR\$WRITE_SU (unit.rl.v,
0000 140 [, err_adr.j.r [, end_adr.j.r]])
0000 141
0000 142 INPUT PARAMETERS:
0000 143
0000 144 unit.rl.v logical unit number
0000 145 [,err_adr.j.r] optional ERR= address
0000 146 [,end_adr.j.r] optional END= address
0000 147
0000 148 IMPLICIT INPUTS:
0000 149 NONE except those used by FOR\$IO_BEG.
0000 150
0000 151 OUTPUT PARAMETERS:
0000 152
0000 153
0000 154
0000 155
0000 156 IMPLICIT OUTPUTS:
0000 157 NONE except those left by FOR\$IO_BEG.
0000 158
0000 159
0000 160 COMPLETION CODES:
0000 161
0000 162
0000 163
0000 164 SIDE EFFECTS:
0000 165 NONE except those of FOR\$IO_BEG.
0000 166
0000 167
0000 168 :--
0000 169
0000 170 FOR\$WRITE_SU:: MASK FOR\$IO_BEG
50 03 9A 0000 171 MOVZBL #ISBSK ST TY WS0, R0 ; Statement type
00000002'GF 17 0002 172 JMP G^FOR\$IO_BEG+2 ; branch past call mask
000B 173
000B 174
000B 175 .END

FOR\$WRITE_SU
Symbol table

N 11
 - entry point for FORTRAN WRITE SEQUENTI 16-SEP-1984 00:07:29 VAX/VMS Macro V04-00
 6-SEP-1984 11:02:17 [FORRTL.SRC]FORWRITSU.MAR;1 Page 5 (4)

```
FORSSIO_BEG
FORSSREC_WSU0
FORSSREC_WSU1
FORSSREC_WSU9
FORSSUDF_WU0
FORSSUDF_WU1
FORSSUDF_WU9
FOR$WRITE_SU
ISBSK_ST_TY_WSU
```

```
***** X 00
00000000 RG 01
= 00000003
```

+-----+
 ! Psect synopsis !
 +-----+

PSECT name	Allocation	PSECT No.	Attributes															
. ABS	00000000	(0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE				
_FOR\$CODE	0000000B	(11.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG				

+-----+
 ! Performance indicators !
 +-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.05	00:00:01.04
Command processing	129	00:00:00.56	00:00:03.30
Pass 1	128	00:00:01.21	00:00:05.06
Symbol table sort	0	00:00:00.18	00:00:00.64
Pass 2	45	00:00:00.45	00:00:01.73
Symbol table output	2	00:00:00.02	00:00:00.22
Psect synopsis output	3	00:00:00.03	00:00:00.21
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	340	00:00:02.52	00:00:12.22

The working set limit was 1050 pages.

6663 bytes (14 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 187 non-local and 0 local symbols.

175 source lines were read in Pass 1, producing 8 object records in Pass 2.

9 pages of virtual memory were used to define 2 macros.

+-----+
 ! Macro library statistics !
 +-----+

Macro Library name	Macros defined
\$255SDUA28:[FORRTL.OBJ]FORRTL.MLB:1	2
\$255SDUA28:[SYSLIB]STARLET.MLB:2	0
TOTALS (all libraries)	2

183 GETS were required to define 2 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:\$FORWRITSU/OBJ=OBJ\$:\$FORWRITSU MSRC\$:\$FORWRITSU/UPDATE=(ENH\$:\$FORWRITSU)+LI

0185 AH-BT13A-SE
VAX/VMS V4.0

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